Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

- 1. (Currently Amended) A regenerative energy and/or mass exchange assembly, comprising:
 - a) an exchange media;
 - b) a first chamber having a first fluid channel adjacent the exchange media to pass a first fluid stream through the exchange media;
 - c) at least a second chamber having a second fluid channel adjacent the exchange media to pass a second fluid stream through the exchange media, the first and at least second chambers separated by a divider; and
 - d) at least one fluid stream diverter adjacent the exchange media, the at least one diverter having an adjustable orientation relative to the chambers and providing separate flow communications to the chambers through the respective fluid channels, the at least one fluid stream diverter having a radial extent that is less than the functional radial extent of the exchange media, this functional radial extent of the exchange media being defined by the fluid conducting area of the exchange media adjacent the fluid channels; and
 - e) at least one housing connected to one end of the exchange media and the fluid channels being provided in the housing, wherein the at least one housing has interior walls defining an inner enclosure and a connection portion and a dispersion portion which are in fluid communication with each other, and the at least one fluid stream diverter is provided in the inner enclosure;

and wherein, at any given diverter orientation, the separate flow communications are not in fluid communication with the same chamber-

wherein the dispersion portion comprises the first and at least second chambers;

wherein the exchange media is housed in a plurality of media cavities that are separated from one another in cross section and extend in parallel along the exchange media, and wherein the plurality of cavities that house the exchange media are disposed within a central housing, the assembly has a first end housing and a second end housing disposed on either end of the exchange media, and a first fluid stream diverter is disposed in the first end housing and a second fluid stream diverter is disposed within the second end housing.

- 2. to 4. (Cancelled)
- 3. (Cancelled)
- 4. (Cancelled)
- 5. (Currently Amended) An exchange assembly according to claim 3–1 wherein the fluid stream diverter is rotatably mounted within the inner enclosure to provide the diverter with the adjustable orientation.
- 6. to 8. (Cancelled)
- 9. (Previously Presented) An exchange assembly according to claim 5 further comprising a shaft that extends rotatably through the exchange media and the at least one housing connected to one end of the exchange media, and wherein the fluid stream diverter is fixed to the shaft.
- 10. (Cancelled)
- 11. (Cancelled)

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12. (Currently Amended) An exchange assembly according to claim 41–1 wherein the connection portion has at least one port in flow communication with each respective

fluid channel, each port adapted to connect to external fluid stream sources.

13. (Currently Amended) An exchange assembly according to claim 41-1 wherein the

dispersion portion has an open end that is in fluid communication with the exchange

media.

14. (Currently Amended) An exchange assembly according to claim 11 wherein the

connection portion has a radial extent that is less than the radial extent of the dispersion

portion.

15. (Currently Amended) An exchange assembly according to claim 41-1 wherein the

inner enclosure is substantially disposed within the connection portion.

16. (Previously Presented) An exchange assembly according to claim 15 wherein the

fluid stream diverter has a radial extent that is substantially equal to the radial extent of

the inner enclosure.

17. (Cancelled)

18. (Cancelled)

19. (Currently Amended) An exchange assembly according to claim 18-1 wherein

each cavity is thermally insulated from adjacent cavities.

20. (Currently Amended) An exchange assembly according to claim 18-1 wherein the

plurality of media cavities are positioned in correspondence to the chambers of the

dispersion portion.

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21. to 26. (Cancelled)

27. (Currently Amended) An exchange assembly according to claim <u>48-1</u> wherein the connection portion has an open end and a closing means which closes the open end.

28. (Currently Amended) An exchange assembly according to claim <u>18-1</u> further comprising snap-connection means provided between the central housing and the housing connected to one end of the exchange media.

29. (Previously Presented) An exchange assembly according to claim 18 wherein the assembly has a first end housing and a second end housing disposed on either end of the exchange media.

30. (Original) An exchange assembly according to claim 29 wherein a first fluid stream diverter is disposed in the first end housing and a second fluid stream diverter is disposed within the second end housing.

31. (Original) An exchange assembly according to claim 30 wherein the plurality of chambers of the dispersion portion of the first end housing is in substantial axial alignment with the corresponding plurality of chambers of the dispersion portion of the second end housing.

32. (Original) An exchange assembly according to claim 31 wherein the first and second fluid stream diverters are disposed correspondingly in the respective end housings and rotate in phase during operation.

33. to 42. (Cancelled)

43. (Currently Amended) A regenerative energy and/or mass exchange assembly, comprising:

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- a) an exchange media housed in a plurality of cavities that are separated from one another in cross section and extend in parallel along the direction of fluid stream flow, the plurality of cavities being disposed in a central housing and each cavity being thermally insulated from adjacent cavities;
- b) a first flow path to pass a fluid stream through the exchange media;
- c) at least a second flow path to pass a further fluid stream through the exchange media;
- d) at least one housing connected to one end of the exchange media, the flow paths being provided in the housing;
- e) at least one fluid stream diverter that cooperates with the housing to form the flow paths, the at lest least one diverter having a radial extent that is generally less than the radial extent of the exchange media and being rotatably mounted within the housing to divert the different flow paths to pass the respective fluid streams through different cavities of the exchange media; and
- f) a shaft that extends through the exchange media, the at least one housing connected to one end of the exchange media, and the fluid stream diverter rotatably mounted within the housing;

and wherein

the at least one housing connected to one end of the exchange media comprises a connection portion and a dispersion portion which are in fluid communication with each other;

the connection portion has at least two ports adapted to connect to external fluid stream sources and a radial extent that is generally less than the radial extent of the dispersion portion, the diverter being substantially disposed within the connection portion and having a radial extent that is substantially equal to the radial extent of an inner wall of the connection portion;

the dispersion portion has an open end that is in fluid communication with the exchange media, the dispersion portion comprising a plurality of chambers that are separated from one another; and

the plurality of cavities that house the exchange media are disposed within a

central casing, each cavity being thermally insulated from adjacent cavities and being

positioned in correspondence to the chambers of the dispersion portion, the cavities and

the chambers being substantially equal in cross section and substantially evenly spaced

about the axial direction, the quantity of cavities and chambers be equal to each other

and equal to a quantity of one of the group consisting of three and five; and wherein

the fluid stream diverter comprises in sequence along the axial direction a first

segment, a first reduced diameter portion, a second segment, a second reduced

diameter portion, and a third segment; an inner bore defining an inner space within the

fluid stream diverter; a first passage extending from a first port in the outer wall of the

second reduced diameter portion through the inner space and then to a second port on

the outer wall of the first segment; a second passage extending from a third port on the

end wall of the first segment adjacent to the first reduced diameter portion to a fourth

port on the outer wall of the first segment; and wherein the said first and second

passages are isolated from each other.

44. (Previously Presented) An exchange assembly according to claim 43 wherein

sealing means is provided between the fluid stream diverter and the connection portion.

45. (Previously Presented) An exchange assembly according to claim 44 wherein

sealing means is provided between each of the first, second, and third segment, of the

fluid stream diverter and the inner wall of the connection portion.

46. (Previously Presented) An exchange assembly according to claim 45 wherein the

connection portion has an open end and a closing means which closes the open end.

47. (Currently Amended) A regenerative energy and/or mass exchange assembly,

comprising:

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- a) an exchange media housed in a plurality of cavities that are separated from one another in cross section and extend in parallel along the direction of fluid stream flow;
- b) a first flow path to pass a fluid stream through the exchange media;
- c) at least a second flow path to pass a further fluid stream through the exchange media;
- d) at least one housing connected to one end of the exchange media, the flow paths being provided in the housing;
- e) at least one fluid stream diverter that cooperates with the housing to form the flow paths, the at <u>lest_least</u> one diverter having a radial extent that is generally less than the radial extent of the exchange media and being rotatably mounted within the housing to divert the different flow paths to pass the respective fluid streams through different cavities of the exchange media; and
- f) a shaft that extends through the exchange media, the at least one housing connected to one end of the exchange media, and the fluid stream diverter rotatably mounted within the housing;

and wherein

the at least one housing connected to one end of the exchange media comprises a connection portion and a dispersion portion which are in fluid communication with each other;

the connection portion has at least two ports adapted to connect to external fluid stream sources and a radial extent that is generally less than the radial extent of the dispersion portion, the diverter being substantially disposed within the connection portion and having a radial extent that is substantially equal to the radial extent of an inner wall of the connection portion;

the dispersion portion has an open end that is in fluid communication with the exchange media, the dispersion portion comprising a plurality of chambers that are separated from one another;

the plurality of cavities that house the exchange media are disposed within a central housing; and

> the assembly further comprising snap-connection means provided between the central housing and the housing connected to one end of the exchange media.

- 48. (Currently Amended) A regenerative energy and/or mass exchange assembly, comprising:
 - a) an exchange media having a casing;
 - b) at least one housing attached to one end of the casing, the housing having:
 - i) a dispersion end with a first and at least a second chamber adjacent the exchange media, the first and at least second chambers separated by a divider;
 - ii) a connection end with first and at least second ports for connection to external fluid flows; and
 - iii) an inner enclosure providing fluid communication between the chambers of the dispersion end and the ports of the connection end;
 - c) a fluid stream diverter substantially disposed in the inner enclosure of the housing, the fluid stream diverter having an adjustable orientation within the housing and cooperating with the housing to form at least two separate movable fluid channels extending between the ports and the chambers, wherein the diverter is generally cylindrical in shape and wherein the at least two movable fluid channels comprise respective first and second annular grooves provided in the diverter and separated by an annular wall; and
 - d) sealing means provided between the housing and the fluid stream diverter for preventing fluid cross-flow between the at least two movable fluid channels, the movable fluid channels providing separate flow communications between the ports and the chambers independent of the attachment of the housing to the casing, and wherein, at any given diverter orientation, the separate flow communications are not in fluid communication with the same chamber.

49. (Cancelled)

50. (Currently Amended) The exchange assembly of claim 49–48 wherein the sealing means comprises an o-ring disposed between the annular wall and an inner surface of the housing.